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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

Date Submitted: OCT 25 2004

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1 of 2

## Complete if Known

Application Number	10/823,773
Filing Date	04/14/2004
First Named Inventor	Takahiro HAMADA
Group Art Unit	3747
Examiner Name	Unassigned
Attorney Docket Number	023971-0407

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	5,843,571		SHO	12-01-1998	
	A2	5,466,431		DORFMAN ET AL.	11-14-1995	
	A3	5,190,824		ITOH	03-02-1993	
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	A12	4,974,498		LEMELSON	12-04-1990	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A14	JP	7-63135	A	NIPPON INJECTOR KK	03-07-1995		Abst.
	A15	JP	2002-332571	A	DENSO CORP., ET AL.	11-22-2002		Abst.
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	A17	JP	7-90553	A	SHOHIRO MIYAKE ET AL.	04-04-1995		Transl.
	A18	DE	103 18 135	A1	DENSO CORP.	11-06-2003		Abst.
	A19	EP	0 731 190	B1	GENERAL MOTORS CORP.	05-06-1999		
	A20	EP	0 818 622	A1	FORD GLOBAL TECHNOLOGIES, INC.	01-14-1998		
	A21	WO	01/61182	A1	CATERPILLAR INC.	08-23-2001		

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A22	D.G. Watson et al., "Engineering Drawing Practice," XP002281300, University of Hertfordshire, Sept. 1991, page 29, Figure 38.	

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<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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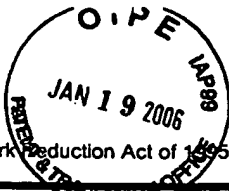
Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE          STATEMENT BY APPLICANT</b> Date Submitted: <b>OCT 25 2004</b> <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/823,773
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				First Named Inventor	Takahiro HAMADA
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	2	of	2		

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Wahima K. K. K.

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Date Submitted: January 19, 2006

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**Complete if Known**

Application Number	10/823,773
Filing Date	April 14, 2004
First Named Inventor	Takahiro Hamada
Group Art Unit	3747
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Sheet 1 of 28

**U.S. PATENT DOCUMENTS**

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		Number	Kind Code <sup>2</sup> (if known)			
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	B2	6,205,291	B1	Hughes et al.	03-20-2001	
	B3	6,822,788	B2	Blitstein	11-23-2004	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: January 19, 2006  (use as many sheets as necessary)		Application Number	10/823,773
		Filing Date	April 14, 2004
		First Named Inventor	Takahiro Hamada
		Group Art Unit	3747
		Examiner Name	Unassigned
Sheet	2	of	28
		Attorney Docket Number	023971-0407

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	B50	6,855,791	B2	Van Doren et al.	02-15-2005	
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Examiner Signature		Date Considered	1/30/06
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Sheet	3	of	28
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		Number	Kind Code <sup>2</sup> (if known)			
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	B115	6,701,627	B2	Korb et al.	03-09-2004	
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		Number	Kind Code <sup>2</sup> (if known)			
	B121	2003/0069632	A1	De Scheerder et al.	04-10-2003	
	B122	2003/0037640	A1	Griffin et al.	02-27-2003	
	B123	2003/0036341	A1	Myoung et al.	02-20-2003	
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	B135	6,592,985	B2	Griffin et al.	07-15-2003	
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B147	2002/0070357	A1	Kim et al.	06-13-2002		
B148	2002/0051286	A1	Blitstein	05-02-2002		
B149	2002/0034632	A1	Griffin et al.	03-21-2002		
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B152	6,452,752	B1	Boutaghou	09-17-2002		
B153	6,439,986	B1	Myoung et al.	08-27-2002		
B154	6,401,058	B1	Akalin et al.	06-04-2002		
B155	6,399,215	B1	Zhu et al.	06-04-2002		
B156	6,368,676	B1	Gaudreau et al.	04-09-2002		
B157	6,340,245	B1	Horton et al.	01-22-2002		
B158	6,324,060	B1	Hsu	11-27-2001		
B159	6,322,431	B1	Schaenzer et al.	11-27-2001		
B160	6,316,734	B1	Yang	11-13-2001		

Examiner Signature	Date Considered	
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	5	of	28		

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	B161	6,293,648	B1	Anderson	09-25-2001	
	B162	6,274,220	B1	Tsukuda et al.	08-14-2001	
	B163	6,238,839	B1	Tomita et al.	05-29-2001	
	B164	6,237,852	B1	Svetal et al.	05-29-2001	
	B165	6,227,056	B1	Bills et al.	05-08-2001	
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	B167	6,197,428	B1	Rogers	03-06-2001	
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	B171	6,160,683		Boutaghou	12-12-2000	
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	B174	6,145,608		Lund et al.	11-14-2000	
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	B178	6,083,313		Venkatraman et al.	07-04-2000	
	B179	6,071,597		Yang et al.	06-06-2000	
	B180	6,059,830		Lippincott, III et al.	05-09-2000	
	B181	6,051,298		Ko et al.	04-18-2000	
	B182	6,028,393		Izu et al.	02-22-2000	
	B183	6,023,979		Bills et al.	02-15-2000	
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	B185	5,993,938		Tsukuda et al.	11-30-1999	
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	B200	5,593,719		Dearnaley et al.	01-14-1997	

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				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	6	of	28		

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	B201	5,568,391		Mckee	10-22-1996	
	B202	5,551,959		Martin et al.	09-03-1996	
	B203	5,547,716		Thaler	08-20-1996	
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	B205	5,531,878		Vadgama et al.	07-02-1996	
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	B208	5,491,028		Sarin et al.	02-13-1996	
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	B218	5,358,402		Reed et al.	10-25-1994	
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	B228	5,087,608		Chan et al.	02-11-1992	
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: January 19, 2006  (use as many sheets as necessary)				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
Sheet	7	of	28	Attorney Docket Number	023971-0407

		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B236	WO	02/085237	A2	General Plasma, LLC	10-31-2002		
	B237	WO	00/56393	A1	Second Sight, LLC	09-28-2000		
	B238	WO	00/47402	A1	Advanced Refractory Technologies, Inc.	08-17-2000		
	B239	WO	99/29477	A1	Advanced Refractory Technologies, Inc.	06/17/1999		
	B240	WO	00/56127	A1	The Regents of the University of California	09-21-2000		
	B241	WO	00/78504	A1	Speedfam-IPEC Corporation	12-28-2000		
	B242	WO	03/013990	A1	Stapell/Guider Corporation	02-20-2003		
	B243	WO	03/091758	A2	Sabeus Photonics, Inc.	11-06-2003		
	B244	WO	00/44032	A1	N.V. Bekaert SA	07-27-2000		
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	B246	WO	03/076309	A2	Frost Links, Inc	09-18-2003		
	B247	WO	02/062714	A2	Honeywell, Inc.	08-15-2002		
	B248	EP	0949200	A1	R-Amtech International, Inc.	10-13-1999		
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	B255	WO	96/12389	A1	EDSI, Inc.	04-25-1996		
	B256	WO	2004/068530	A1	3M Innovative Properties Company	08-12-2004		
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	B258	WO	03/105134	A1	Seagate Technology LLC	12-18-2003		
	B259	WO	01/40537	A1	The Regents of the University of California	06-07-2001		
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	B261	WO	99/54934	A1	CVC Products, Inc.	10-28-1999		

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Sheet	8	of	28		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
10/2	B262	WO	99/54520	A1	Valmet Corporation	10-28-1999		
	B263	WO	99/16371	A1	Boston Scientific Corporation	04-08-1999		
	B264	EP	0392125	B1	Shin-Etsu Chemical Co., Ltd.	03-10-1993		
	B265	WO	2005/037985	A2	Cellular Bioengineering, Inc.	04-28-2005		
	B266	WO	2005/010596	A2	Corning Incorporated	02-03-2005		
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	B268	WO	2004/048126	A2	Frost Inc.	06-10-2004		
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	B270	WO	2004/001804	A2	Ziegler.	12-31-2003		
	B271	WO	03/091758	A2	Sabeus Photonics, Inc.	11-06-2003		
	B272	WO	02/080996	A1	Tilger	10-17-2002		
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	B277	EP	0392125	A1	Shin-Etsu Chemical Co., Ltd.	10-17-1990		
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	B280	WO	2005/014882	A1	NV Bekaert SA	02-17-2005		
	B281	WO	2004/043631	A1	Honeywell International Inc.	05-27-2004		
	B282	WO	2004/024206	A1	Estrogen Vascular Technology, LCC	03-25-2004		
	B283	WO	2004/004998	A1	Signature Control Systems, Inc.	01-15-2004		
	B284	EP	1440775	A1	The Gillette Company	07-28-2004		
	B285	EP	0757615	B1	The Gillette Company	03-31-2004		
	B286	WO	03/078679	A1	Teer Coatings Ltd.	09-25-2003		
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	B288	WO	03/020329	A1	Estrogen Vascular Technology, LCC	03-13-2003		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B289	EP	1281513	A2	Premark RWP Holdings, Inc.	02-05-2003		
	B290	EP	0950123	B1	Kennametal Inc.	05-14-2003		
	B291	WO	02/097289	A1	AB SKF	12-05-2002		
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	B296	EP	0826790	B1	Premark RWP Holdings Inc.	11-14-2001		
	B297	WO	00/33051	A1	Neste Chemicals OY	06-08-2000		
	B298	WO	00/28142	A1	Valmet Corporation	05-18-2000		
	B299	WO	00/25410	A1	Kuhlmann-Wilsdorf	05-04-2000		
	B300	WO	00/24554	A1	McNeil-PPC, Inc.	05-04-2000		
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	B302	WO	99/62572	A1	NV Bekaert SA	12-09-1999		
	B303	WO	99/57743	A1	Givargizov	11/11/1999		
	B304	WO	99/46847	A1	SKF Engineering and Research Centre B.V.	09-16-1999		
	B305	WO	99/31557	A1	Aluminum Company of America	06-24-1999		
	B306	WO	99/22694	A2	King	05-14-1999		
	B307	WO	99/14512	A1	SKF Industrial Trading & Development Company B.V.	03-25-1999		
	B308	WO	98/13528	A1	Kennametal Inc.	04-02-1998		
	B309	JP	10-088369	A2				
	B310	EP	0816112	A3	Corning Incorporated	10-07-1998		
	B311	EP	0826790	A1	Premark RWP Holdings, Inc.	03-04-1998		
	B312	EP	0652301	B1	Minnesota Mining and Manufacturing Company	01-07-1998		
	B313	WO	96/24488	A1	SI Diamond Technology, Inc.	08-15-1996		
	B314	WO	96/05942	A1	Minnesota Mining and Manufacturing Company	02-29-1996		
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	B316	WO	95/29044	A1	The Gillette Company	11-02-1995		

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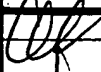
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				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	10	of	28		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
	B317	WO	95/20253	A2	QQC, Inc.	07-27-1995		
	B318	EP	0652301	A1	Minnesota Mining and Manufacturing Company	05-10-1995		
	B319	EP	0651069	A1	Vlaamse Instelling Voor Technologisch Onderzoek	05-03-1995		
	B320	EP	0573943	A1	Air Products And Chemicals, Inc.	12-15-1993		
	B321	WO	2005/047737	A1	The Timken Company	05-26-2005		
	B322	WO	2005/042064	A1	Ventracor Limited and The University of Sydney	05-12-2005		
	B323	WO	2005/040451	A1	Gorokhovskiy, Vladimir, I.	05-06-2005		
	B324	WO	2005/037144	A2	Cellular Bioengineering, Inc. and Liu, Ge, Ming	04-28-2005		
	B325	WO	2005/034791	A1	Shaygan, Farzad	04-21-2005		
	B326	WO	2005/025844	A1	New Medium Enterprises, Inc. and Magnitskii	03-24-2005		
	B327	WO	2005/011744	A2	Alcon, Inc.	02-10-2005		
	B328	EP	1498597	A1	Sorevi S.A.	01-19-2005		
	B329	EP	1311885	B1	3M Innovative Properties Company	03-23-2005		
	B330	WO	2004/088113	A1	Sorevi S.A.	10-14-2004		
	B331	WO	2004/084773	A1	Feiwell, Lawrence, M., D.	10-07-2004		
	B332	WO	2004/078424	A2	Irwin Industrial Tool Company	09-16-2004		
	B333	WO	2004/072959	A2	Intevac, Inc.	08-26-2004		
	B334	WO	2004/071670	A1	Scion Sprays Limited	08-26-2004		
	B335	WO	2004/038701	A2	Barnes et al.	05-06-2004		
	B336	WO	2004/036292	A2	Intellimats, LLC.	04-29-2004		
	B337	WO	2004/036169	A1	Helix Technology Corporation	04-29-2004		
	B338	WO	2004/026500	A2	Enventure Global Technology	04-01-2004		
	B339	WO	2004/026359	A1	Advanced Cardiovascular Systems, Inc.	04-01-2004		
	B340	WO	2004/019809	A2	Board of Trustees of the University of Arkansas	03-11-2004		
	B341	EP	1481699	A1	Goldowsky	12-01-2004		
	B342	EP	1475557	A1	Dresser-Rand Company	11-10-2004		

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				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	11	of	28		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
[Signature]	B343	EP	1445119	A1	Fuji Photo Film Co., Ltd.	08-11-2004		
	B344	EP	1378271	A1	Mizuno Corporation	01-07-2004		
	B345	EP	0862395	B1	Wright Medical Technology, Inc.	04-07-2004		
[Signature]	B346	EP	0842754	B1	Toray Industries, Inc.	03-31-2004		
	B347	EP	1078736	B1	Fuji Photo Film Co., Ltd.	01-28-2004		
	B348	WO	2003/095009	A1	Perlos OYJ	11-20-2003		
[Signature]	B349	WO	2003/046508	A3	Biomicroarrays, Inc.	06-05-2003		
	B350	WO	03/021731	A1	Cymer, Inc.	03-13-2003		
	B351	WO	03/009978	A1	American Saw & Mfg. Company	02-06-2003		
[Signature]	B352	EP	1365141	A1	Siemens Diesel Systems Technology VDO	11-26-2003		
	B353	EP	1340605	A1	Mitsubishi Diamond Industrial Co., Ltd.	09-03-2003		
	B354	EP	1083946	B1	Blue Medical Devices B.V.	12-03-2003		
[Signature]	B355	EP	0882759	B1	Toray Industries, Inc.	06-04-2003		
	B356	WO	02/090461	A1	Gorokhovskiy, Vladimir	11-14-2002		
	B357	WO	02/062714	A2	Honeywell, Inc.	08-15-2002		
[Signature]	B358	WO	02/054454	A2	Lam Research Corporation	07-11-2002		
	B359	WO	02/44440	A1	Essilor International	06-06-2002		
	B360	WO	02/32625	A2	3M Innovative Properties Company	04-25-2002		
[Signature]	B361	WO	02/24603	A1	Schlumberger Canada Limited	03-28-2002		
	B362	WO	02/24601	A1	Camco International (UK) Limited	03-28-2002		
	B363	WO	02/13188	A1	Koninklijke Philips Electronics N.V.	02-14-2002		
[Signature]	B364	WO	02/006875	A1	3M Innovative Properties Company	01-24-2002		
	B365	EP	1219464	A2	Fuji Photo Film Co., Ltd.	07-03-2002		
	B366	EP	1190791	A3	Camco International (UK) Limited	04-03-2002		
[Signature]	B367	EP	0971812	B1	Upper Innovation AB	10-23-2002		
	B368	EP	1018291	B1	Minnesota Mining and Manufacturing Company	10-02-2002		
	B369	EP	0893677	B1	Helix Technology Corporation	01-16-2002		

Examiner Signature	[Signature]	Date Considered	1/30/06
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Substitute for form 1449B/PTO				<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>				<b>Application Number</b>	10/823,773
Date Submitted: January 19, 2006				<b>Filing Date</b>	April 14, 2004
(use as many sheets as necessary)				<b>First Named Inventor</b>	Takahiro Hamada
				<b>Group Art Unit</b>	3747
				<b>Examiner Name</b>	Unassigned
				<b>Attorney Docket Number</b>	023971-0407
Sheet	12	of	28		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
100	B370	WO	00/44032	A1	N.V. Bekaert S.A.	07-27-2000		
	B371	WO	01/80224	A2	Seagate Technology LLC	10-25-2001		
	B372	WO	01/79583	A2	Technology International, Inc.	10-25-2001		
	B373	WO	01/67834	A1	3M Innovative Properties Company	09-13-2001		
	B374	WO	01/63639	A1	Energy Conversion Devices, Inc.	08-30-2001		
	B375	WO	01/59544	A2	Rainbow Technologies B.V., Netherlands	08-16-2001		
	B376	WO	01/47451	A1	New et al.	07-05-2001		
	B377	WO	01/26862	A1	Hunatch Co., Ltd.	04-19-2001		
	B378	WO	01/14736	A1	Caterpillar Inc.	03-01-2001		
	B379	WO	01/006033	A1	Diversified Technologies, Inc.	02-25-2001		
	B380	IE	0990532	A1				
	B381	WO	99/62572	A1	De Scheerder et al.	12-09-1999		Abs
	B382	EP	1078736	A1	Fuji Photo Film Co., Ltd.	02-28-2001		
	B383	EP	1034320	B1	Minnesota Mining and Manufacturing Company	12-19-2001		
	B384	EP	0778902	B1	Minnesota Mining and Manufacturing Company	09-12-2001		
	B385	EP	0850126	B1	Warner-Lambert Company	01-24-2001		
	B386	WO	00/68451	A2	SKION Corporation	11-16-2000		
	B387	WO	00/62327	A2	Gorokhovskiy	10-19-2000		
	B388	WO	00/55385	A1	Teer Coatings Limited	09-21-2000		
	B389	WO	00/35000	A1	CVC Products, Inc.	06-15-2000		
	B390	WO	00/22613	A1	Minnesota Mining And Manufacturing Company	04-20-2000		
	B391	RU	2153782	C1				
	B392	WO	99/29477	A1	Advanced Refractory Technologies, Inc.	06-17-1999		
	B393	EP	0582676	B1	The Gillette Company	03-22-2000		
	B394	WO	99/34385	A1	Alfar International Ltd.	07-08-1999		
	B395	WO	99/27157	A1	Minnesota Mining And Manufacturing Company	06-03-1999		
	B396	WO	99/12404	A1	Minnesota Mining And Manufacturing Company	03/11/1999		

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				<b>Filing Date</b>	April 14, 2004
				<b>First Named Inventor</b>	Takahiro Hamada
				<b>Group Art Unit</b>	3747
				<b>Examiner Name</b>	Unassigned
				<b>Attorney Docket Number</b>	023971-0407
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	B397	WO	99/09547	A1	Seagate Technology, Inc.	02-25-1999		
	B398	GB	2338716		Andrew et al.	12-29-1999		
	B399	EP	0893677	B1	Helix Technology Corp.	01-27-1999		
	B400	EP	0624354	B1	Minnesota Mining and Manufacturing Company	12-08-1999		
	B401	EP	0845154	B1	E.I. Du Pont de Nemours and Company and the Regents of the University of California	11-10-1999		
	B402	EP	0647318	B1	The Victoria University of Manchester	03-03-1999		
	B403	EP	0624353	B1	Minnesota Mining and Manufacturing Company	02-24-1999		
	B404	EP	0656458	B1	Baker Hughes Incorporated	02-03-1999		
	B405	DE	19825860	A1	Elgan-Diamantwerkzeuge GmbH & Co.	12-16-1999		
	B406	WO	98/47141	A1	Digital Papyrus Corporation	10-22-1998		
	B407	WO	98/12994	A1	Eriksson et al.	04-02-1998		
	B408	WO	98/02715	A1	Phase Metrics	01-22-1998		
	B409	EP	0882759	A1	Toray Industries, Inc.	12-09-1998		
	B410	EP	0842754	A1	Toray Industries, Inc.	05-20-1998		
	B411	WO	97/16138	A1	Wright Medical Technology, Inc.	05-09-1997		
	B412	WO	97/10940	A1	Uponor B.V.	03-27-1997		
	B413	WO	97/10093	A1	Vinidex Tubemakers Pty, Limited	03-20-1997		
	B414	WO	97/07531	A1	E.I. Du Pont De Nemours and Company and The Regents of the University of California	02-27-1997		
	B415	WO	96/05942	A1	Minnesota Mining and Manufacturing Company	02-29-1996		
	B416	EP	0474369	B1	AEA Technology plc	03-05-1997		
	B417	DE	19507086	C2		09-05-1996		
	B418	WO	96/40446	A1	Advanced Refractory Technologies, Inc.	12-19-1996		

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				<b>Examiner Name</b>	Unassigned
				<b>Attorney Docket Number</b>	023971-0407
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	B419	WO	96/06961	A1	Deposition Sciences, Inc.	03-07-1996		
	B420	WO	96/05333	A1	Minnesota Mining and Manufacturing Company	02-22-1996		
	B421	EP	0656458	A3	Baker Hughes Incorporated	06-07-1995		
	B422	EP	0388800	B1	The Board of Trustees of the Michigan State University	12-27-1996		
	B423	EP	0396603	B1	Suomen Itsenäisyden Juhlarahasto Sitra	06-26-1996		
	B424	DE	19507086	A1	Danfoss A/S	09-05-1996		
	B425	WO	95/29273	A1	Corbrain N.V.	11-02-1995		
	B426	JP	7-41386	A2		10-02-1995		
	B427	EP	0624354	A3	Minnesota Mining And Manufacturing Company	11-17-1994		
	B428	EP	0624353	A3	Minnesota Mining And Manufacturing Company	11-17-1994		
	B429	EP	0378378	B1	Ford Motor Company Limited; Ford France S.A. B.P.; Ford-Werke Aktiengesellschaft	01-04-1995		
	B430	EP	0621136	A2	Xerox Corporation	10-26-1994		
	B431	EP	0619504	A1	Optische Werke G. Rodenstock	10-12-1994		
	B432	WO	9324828	A1	The Victoria University of Manchester	12-09-1993		
	B433	EP	0546824	A1	American Telephone and Telegraph Company	06-16-1993		
	B434	EP	0308143	B1	American Telephone and Telegraph Company	03-22-1989		
	B435	EP	0398985	B1	British Technology Group Limited	11-28-1990		
	B436	WO	9219425	A2	The Gillette Company	11-12-1992		
	B437	WO	9206843	A1	Diamonex, Incorporated	04-30-1992		
	B438	EP	0388800	A2	The Board of Trustees of the Michigan State University	09-26-1990		
	B439	EP	0378378	A1	Ford Motor Company Limited; Ford France S.A. B.P.; Ford-Werke Aktiengesellschaft	07-18-1990		

<b>Examiner Signature</b>	<b>Date Considered</b>
	1/30/06

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				
✓	B440	CA	2009582		McDonnell Douglas Corporation	08-24-1990		
	B441	WO	89/06708	A1	Anttila et al.	07-27-1989		
	B442	WO	89/06707	A1	The National Research Development Corporation	07-27-1989		
	B443	WO	8906338	A1	The Commonwealth of Australia	07-13-1989		
	B444	EP	0308143	A1	American Telephone and Telegraph Company	11-24-1993		
	B445	JP	2001-172766	A2	Sumitomo Electric Industries, Ltd.	06-26-2001		
	B446	JP	2001-93141	A2	Fujitsu Ltd.	04-06-2001		
	B447	JP	2002-265968	A2	LINO, Mitsuhiro	09-18-2002		
	B448	JP	2003-28174	A2	NSK Ltd.	01-29-2003		
	B449	JP	2004-36788	A2	NSK Ltd.	02-05-2004		
	B450	JP	2005-68529	A2	NAKAYAMA, Keiji	03-17-2005		
	B451	JP	9-20981	A2	Toyo Kohan Co. Ltd.	01-21-1997		
	B452	JP	253770	A2	Mitsubishi Electric Corp.	09-30-1997		
	B453	JP	10-298440	A2	Nissin Electric Co., Ltd.	11-10-1998		
	B454	JP	11-292629	A2	Mitsubishi Pencil Co., Ltd.	10-26-1999		
	B455	JP	11-333773	A2	Nissin Electric Co., Ltd.	12-07-1999		
	B456	JP	63-21209	A2	Matsushita Electric Industrial Co., Ltd.	01-28-1988		
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Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			<b>Application Number</b>	10/823,773	
			<b>Filing Date</b>	April 14, 2004	
Date Submitted: January 19, 2006			<b>First Named Inventor</b>	Takahiro Hamada	
			<b>Group Art Unit</b>	3747	
(use as many sheets as necessary)			<b>Examiner Name</b>	Unassigned	
			<b>Attorney Docket Number</b>	023971-0407	
Sheet	16	of	28		

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>	
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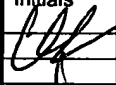
<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	17	of	28		

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				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	18	of	28		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B543	DE	100 17 459		Miyake Shojiro; Nissan Motor	10-26-2000		Abs
	B544	DE	101 58 683		Tea GMBH Technologiezentrum Em	06-05-2003		Abs

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				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	19	of	28		

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[Signature]	1/30/06	

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**INFORMATION DISCLOSURE  
 STATEMENT BY APPLICANT**

Date Submitted: January 19, 2006

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First Named Inventor	Takahiro Hamada
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Examiner Name	Unassigned
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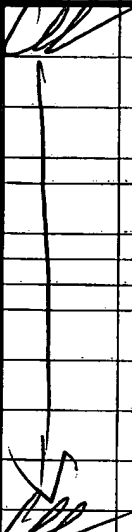
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Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Date Submitted: January 19, 2006 (use as many sheets as necessary)				<b>Complete If Known</b>	
				Application Number	10/823,773
				Filing Date	April 14, 2004
				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	21	of	28		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	B604	WO	92/02602		Exxon Chemical Patents Inc.	02-20-1992		
	B605	WO	93/21288		Exxon Chemical Patents Inc.	10-28-1993		
	B606	WO	93/21289		Exxon Chemical Patents Inc.	10-28-1993		
	B607	WO	96/04485		Pankl	02-15-1996		
	B608	WO	97/14555		Advanced Refractory Technologies Inc.	04-24-1997		
	B609	WO	03/031543	A2	Bunemann et al.	04-17-2003		
	B610	EP	0 905 221	A1	NCH Corporation	03-31-1999		
	B611	EP	1 233 054	A1	Ethyl Corporation	08-21-2002		Abs
	B612	EP	0 291 006	A2	Idemitsu Kosan Company Limited	11-17-1988		Abs
	B613	EP	1 418 353	A2	Nissan Motor Company Limited	05-12-2004		Abs
	B614	EP	1 510 594	A2	Nissan Motor Co., Ltd.; Nissan Arc, Ltd.; Martin	03-02-2005		Abs
	B615	DE	100 61 397	A1	Desch Antriebstechnik GmbH 7 Co. KG	05-08-2002		Abs

NON PATENT LITERATURE DOCUMENTS			
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✓	B616	"Aluminium Alloy Die Castings," Japanese Industrial Standard (JIS H 5302), 2000, pages 1-12.	
✓	B617	"Aluminium Alloys Castings", Japanese Industrial Standard (JIS H 5202), 1999 (18 pages)	
✓	B618	Japanese Industrial Standard, "Aluminium Alloy Castings", JIS H 5202, 1999, pages 1910, 1911 and 1636-1647.	
✓	B619	"Aluminum Alloy Die Castings," JIS H5302 (2000), pp. 1670-1681	
✓	B620	"Assessment of 2nd to 5th Order Irregularities of Surface Configuration by Means of Sections of Surfaces Definitions Relating to Reference System and Dimensions," DIN 4762, UDC 621-288:001.4 (August 1960), pp. 1-4.	

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				Group Art Unit	3747
				Examiner Name	Unassigned
Date Submitted: January 19, 2006				Attorney Docket Number	023971-0407
(use as many sheets as necessary)					
Sheet	22	of	28		

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	B621	API Motor Oil Guide, "Which Oil is Right for You", American Petroleum Institute, Copyright 2002	
	B622	"Carbon Steels for Machine Structural Use", Japanese Industrial Standard (JIS G 4051), 1979, pages 1381-1383.	
	B623	"Carbon Steels for Machine Structural Use", Japanese Industrial Standard (JIS G 4051), 1979, pages 1-10.	
	B624	"Chromium Molybdenum Steels," Japanese Industrial Standard (JIS G 4105), 1979, pages 1-11 (with Translation)	
	B625	"Chromium Steels," Japanese Industrial Standard (JIS G 4104), 1979, pages 1-9.	
	B626	Database WPI, November 28, 2000, Derwent Publications, Ltd., AN 2000640583, XP002240184, JP 2000-327484, 28-11-2000.	
	B627	Dr. Marx, "Surfaces and Contact Mechanics", XP-002233233, Google, Retrieved from the Internet, 2003-03-03, pgs 1-18.	
	B628	Engine Oil Viscosity Classification - SAE J300 revised April 1997, pg. 133.	
	B629	"Grey iron castings", Japanese Industrial Standard (JIS G 5501), pages 2075-2077	
	B630	Japanese Industrial Standard, "High Carbon Chromium Bearing Steels", JIS G 4805, 1999, pages 1-31 (with translation).	

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Date Submitted: January 19, 2006				Attorney Docket Number	023971-0407
(use as many sheets as necessary)					
Sheet	23	of	28		

NON PATENT LITERATURE DOCUMENTS			
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CE	B631	International Standard "Application of Carbides for Machining by Chip Removal - Designation of the Main Groups of Chip Removal and Groups of Application," ISO 513, (1975), pp. 67-69	
	B632	International Standard, "Petroleum products - Determination of base number - Perchloric acid potentiometric titration method", ISO 3771, second edition 8-15-1994, pages 1-8	
	B633	Japanese Industrial Standard, "Structural Steels with Specified Hardenability Bands", JIS G 4052, 1979, pages 2414, 2415, 1390-1403, 1410 and 1411.	
	B634	JIS Japanese Industrial Standard; "Surface Roughness - Definitions and Designation"; JIS B 0601; 1994. (w/Translation)	
	B635	JIS Japanese Industrial Standard; "Vickers Hardness Test - Test Method"; JIS Z 2244; 1998; (w/Translation).	
	B636	Japanese Industrial Standard, 2001, no. B 0601.	
	B637	K. Holmberg et al., "Tribological Characteristics of Diamond-like Carbon Coatings," VTT Symposium, Technical Research Centre of Finland, XP000570636, 1994, pages 24-238.	
CE	B638	Kano et al., "Friction Characteristics of a Hard Carbon Film in Engine Oil, (No. 2) (Surface Analysis Result of Sliding Surface)," Japan Tribology Congress 1999, 5, pages 11-12.	

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				First Named Inventor	Takahiro Hamada
				Group Art Unit	3747
				Examiner Name	Unassigned
				Attorney Docket Number	023971-0407
Sheet	24	of	28		

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	B639	M. KANO et al., "The Effect of ZDDP and MODTC Additives on Friction Properties of DLC and Steel Cam Follower in Engine Oil", Abstracts of Papers from 2nd World Tribology Congress, September 3-7, 2001, page 342.	
	B640	Patent Abstracts of Japan, Vol. 1996, No. 09, 30 September 1996, JP 08-128448, 21 May 1996.	
	B641	Patent Abstracts of Japan, Vol. 2000, No. 01, 31 January 2000, JP 11-287329, 19 October 1999.	
	B642	Patent Abstracts of Japan, Vol. 2000, No. 09, 13 October 2000, JP 2000-170768, 20 June 2000.	
	B643	PCT/IB2004/002552	
	B644	"Stainless Steel Bars", Japanese Industrial Standard (JIS G 4303), pages 1457-1477.	
	B645	"Standard Practice for Codification of Certain Nonferrous Metals and Alloys, Cast and Wrought <sup>1</sup> ", ASTM International, Designation: B 275-02, June 2002, pages 1-7.	
	B646	"Standard Test Method for Calibration and Operation of the Falex Block-on-Ring Friction and Wear Testing Machine", ASTM Designation: D2714 - 88, 01/1989, pages 383-386.	

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	B647	"Standard Test Method for Separation of Representative Aromatics and Nonaromatics Fractions of High-Boiling Oils by Elution Chromatography", ASTM Designation: D 2549 – 91 (Reapproved 1995), pages 895-900.			
	B648	STEVE J. BULL et al., "High-Performance Diamond and Diamond-like Coatings", JOM, April 1995, pages 16-19, Vol. 47, No. 4, XP 000500980			
	B649	Patent Abstracts of Japan, Vol. 2003, No. 12, 5 December 2003, JP 2004-155891, 3 June 2004			

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		Number	Kind Code <sup>2</sup> (if known)			
	B650	4,933,058		Bache et al.	06-12-1990	
	B651	5,032,243		Bache et al.	07-16-1991	
	B652	5,295,305		Hahn et al.	03-22-1994	
	B653	5,205,305		Yamakita	04-27-1993	
	B654	5,497,550		Trotta et al.	03-12-1996	
	B655	5,669,144		Hahn et al.	09-23-1997	
	B656	6,684,513	B1	Clipstone et al.	02-03-2004	
	B657	6,866,894	B2	Trankiem et al.	03-15-2005	
	B658	5,040,501		Lemelson	08-20-1991	
	B659	5,067,826		Lemelson	11-26-1991	
	B660	5,284,394		Lemelson	02-08-1994	
	B661	5,714,202		Lemelson et al.	02-03-1998	
	B662	6,099,976		Lemelson et al.	08-08-2000	
	B663	5,096,352		Lemelson	03-17-1992	
	B664	5,288,556		Lemelson	02-22-1994	
	B665	5,456,406		Lemelson	10-10-1995	
	B666	5,462,772		Lemelson	10-31-1995	
	B667	5,616,372		Conley et al.	04-01-1997	
	B668	5,688,557		Lemelson et al.	11-18-1997	
	B669	5,740,941		Lemelson	04-21-1998	
	B670	5,786,038		Conley et al.	07-28-1998	
	B671	5,794,801		Lemelson	08-18-1998	
	B672	6,165,616		Lemelson et al.	12-26-2000	
	B673	4,367,130		Lemelson	01-04-1983	
	B674	4,385,880		Lemelson	05-31-1983	
	B675	4,702,808		Lemelson	10-27-1987	
	B676	4,859,493		Lemelson	08-22-1989	
	B677	4,874,596		Lemelson	10-17-1989	
	B678	5,021,628		Lemelson	06-04-1991	
	B679	5,131,941		Lemelson	07-21-1992	
	B680	5,552,675		Lemelson	09-03-1996	
	B681	5,628,881		Lemelson	05-13-1997	
	B682	5,871,805		Lemelson	02-16-1999	
	B683	4,755,237		Lemelson	07-05-1988	
	B684	5,255,929		Lemelson	10-26-1993	
	B685	5,360,227		Lemelson	11-01-1994	
	B686	5,866,195		Lemelson	02-02-1999	
	B687	6,969,198	B2	Konishi et al.	11-29-2005	
	B688	2004/0261614	A1	Hamada et al.	12-30-2004	
B689	2004/0241448	A1	Kano et al.	12-02-2004		

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CJP	B690	2004/0242435	A1	Nishimura et al.	12-02-2004	
	B691	2005/0005892	A1	Nishimura et al.	01-13-2005	
	B692	2005/0084390	A1	Ueno et al.	04-21-2005	
	B693	2005/0089685	A1	Hamada et al.	04-28-2005	
	B694	2005/0100701	A1	Hamada et al.	05-12-2005	
	B695	2005/0064196	A1	Martin et al.	03-24-2005	
	B696	2005/0025975	A1	Okamoto et al.	02-03-2005	
	B697	2005/0056241	A1	Nomura et al.	03-17-2005	
	B698	2005/0082139	A1	Ishikawa et al.	04-21-2005	
	B699	2005/0188942		Hamada et al.	09-01-2005	
	B700	10/911,741		Ueno	05-05-2004	

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				Examiner Name	Unassigned
Sheet	28	of	28	Attorney Docket Number	023971-0407

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	B701	RONKAINEN, HELENA, "Tribological Properties of Hydrogenated and Hydrogen-Free Diamond-Like Carbon Coatings," Dissertation for the Degree of Doctor of Science in Technology, VTT Publications No. 434	

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